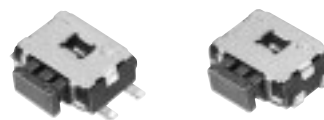


### Small-sized Side-operational SMD Light Touch Switches

Type: **EVQPU**



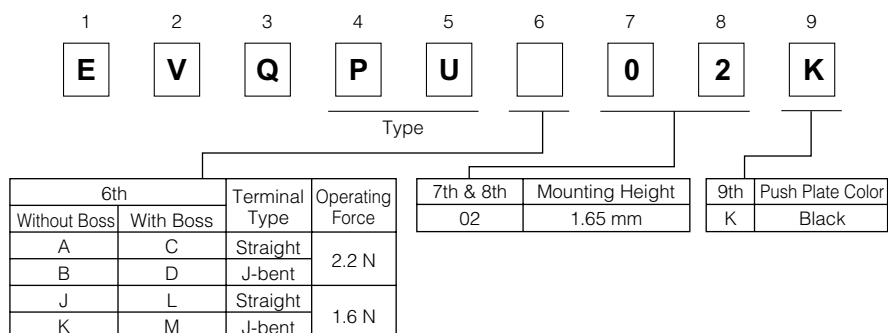
#### ■ Features

- External dimensions : 4.7 mm×3.5 mm, Height 1.65 mm
- A wide range of terminal type : J-bent, Straight

#### ■ Recommended Applications

- Car navigation, Car audio

#### ■ Explanation of Part Numbers

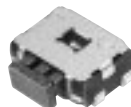
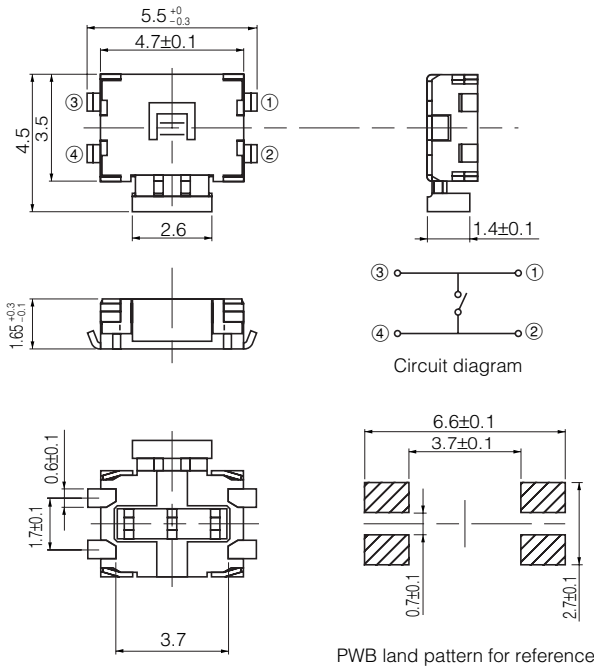

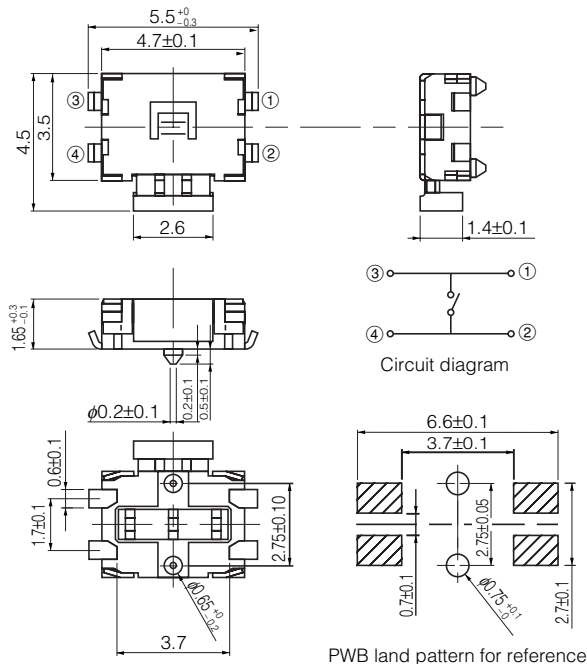


#### ■ Specifications

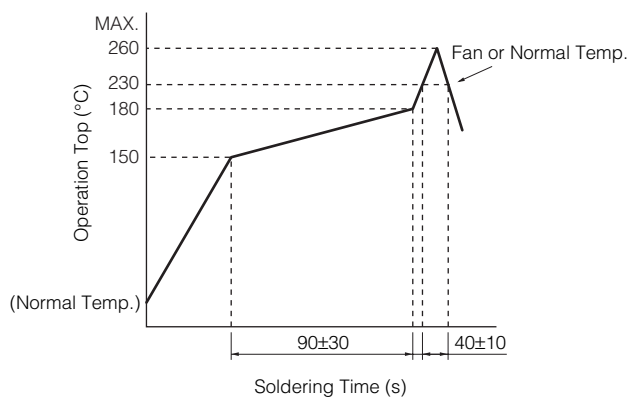
Type		Snap action / Push-on type SPST	
Electrical	Rating	10 $\mu$ A 2 Vdc to 50 mA 12 Vdc (Resistive load)	
	Contact Resistance	500 m $\Omega$ max.	
	Insulation Resistance	100 M $\Omega$ min. (at 100 Vdc)	
	Dielectric Withstanding Voltage	250 Vac for 1 minute	
	Bouncing	10 ms max. (ON, OFF)	
Mechanical	Operating Force	1.6 N <sup>+0.7</sup> <sub>-0.4</sub> N	2.2 N <sup>+0.8</sup> <sub>-0.7</sub> N
	Travel	0.3 mm <sup>+0.1</sup> <sub>-0.2</sub> mm	
	Push Strength	30 N (1 minute)	
Endurance	Operating Life	100000 cycles min.	
Operating Temperature		-40 °C to +85 °C	
Storage Temperature		-40 °C to +85 °C (Bulk)	
		-20 °C to +60 °C (Taping)	
Minimum Quantity/Packing Unit		4000 pcs. Embossed Taping (Reel Pack)	
Quantity/Cartron		20000 pcs.	

<div data-bbox="142 226 293 253" data-label="Section-Header"> <p>No. 1</p> </div> <div data-bbox="142 271 260 336" data-label="Text"> <p>EVQPUJ EVQPUA</p> </div> <div data-bbox="142 344 442 454" data-label="Text"> <p>(Embossed Taping) With straight terminals Without boss</p> </div> <div data-bbox="213 638 359 768" data-label="Image"> </div>	<div data-bbox="622 244 1200 916" data-label="Diagram"> <p>Technical drawings for EVQPUJ and EVQPUA components. The top view shows a square package with dimensions: overall width 6.4±0.3, inner width 4.7±0.1, height 4.5, and terminal width 2.6. The side view shows a height of 1.65±0.30. The cross-section shows a height of 1.4±0.1. The circuit diagram shows a switch with terminals ①, ②, ③, and ④. The PWB land pattern shows a square pad with dimensions: overall width 6.8±0.1, inner width 3.7±0.1, and terminal width 2.7±0.1.</p> </div>															
<div data-bbox="142 1008 442 1135" data-label="Table"> <table> <tr> <th>Part Numbers</th><th>Operating Force</th><th>Height</th><th>Push Plate Color</th><th>Operating Life</th></tr> <tr> <td>EVQPUJ02K</td><td>1.6 N</td><td>1.65 mm</td><td>Black</td><td>100000 cycles</td></tr> <tr> <td>EVQPUA02K</td><td>2.2 N</td><td>1.65 mm</td><td>Black</td><td>100000 cycles</td></tr> </table> </div>	Part Numbers	Operating Force	Height	Push Plate Color	Operating Life	EVQPUJ02K	1.6 N	1.65 mm	Black	100000 cycles	EVQPUA02K	2.2 N	1.65 mm	Black	100000 cycles	
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life												
EVQPUJ02K	1.6 N	1.65 mm	Black	100000 cycles												
EVQPUA02K	2.2 N	1.65 mm	Black	100000 cycles												
<div data-bbox="142 1135 293 1173" data-label="Section-Header"> <p>No. 2</p> </div> <div data-bbox="142 1191 260 1256" data-label="Text"> <p>EVQPUL EVQPUC</p> </div> <div data-bbox="142 1265 442 1375" data-label="Text"> <p>(Embossed Taping) With straight terminals With boss</p> </div> <div data-bbox="213 1559 359 1688" data-label="Image"> </div>	<div data-bbox="622 1164 1200 1836" data-label="Diagram"> <p>Technical drawings for EVQPUL and EVQPUC components. The top view shows a square package with dimensions: overall width 6.4±0.3, inner width 4.7±0.1, height 4.5, and terminal width 2.6. The side view shows a height of 1.65±0.3. The cross-section shows a height of 1.4±0.1. The circuit diagram shows a switch with terminals ①, ②, ③, and ④. The PWB land pattern shows a square pad with dimensions: overall width 6.8±0.1, inner width 3.7±0.1, and terminal width 2.7±0.1. The PWB land pattern also includes a central circular pad with a diameter of 0.2±0.1 and a circular pad with a diameter of 0.75±0.1.</p> </div>															
<div data-bbox="142 1928 442 2047" data-label="Table"> <table> <tr> <th>Part Numbers</th><th>Operating Force</th><th>Height</th><th>Push Plate Color</th><th>Operating Life</th></tr> <tr> <td>EVQPUL02K</td><td>1.6 N</td><td>1.65 mm</td><td>Black</td><td>100000 cycles</td></tr> <tr> <td>EVQPUC02K</td><td>2.2 N</td><td>1.65 mm</td><td>Black</td><td>100000 cycles</td></tr> </table> </div>	Part Numbers	Operating Force	Height	Push Plate Color	Operating Life	EVQPUL02K	1.6 N	1.65 mm	Black	100000 cycles	EVQPUC02K	2.2 N	1.65 mm	Black	100000 cycles	
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EVQPUL02K	1.6 N	1.65 mm	Black	100000 cycles												
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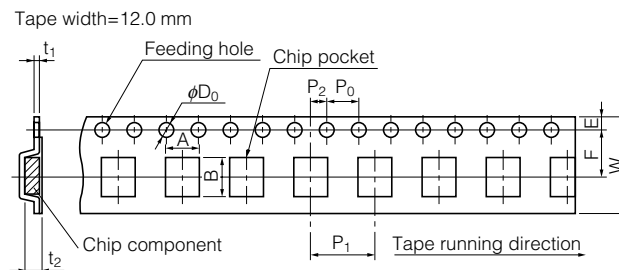
### ■ Dimensions in mm (not to scale)

<div>No. 3</div> <div>EVQPUK EVQPUB</div> <div>(Embossed Taping)</div> <div>With J-bent terminals Without boss</div> <div></div>		<div></div>		
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQPUK02K	1.6 N	1.65 mm	Black	100000 cycles
EVQPUB02K	2.2 N	1.65 mm	Black	100000 cycles
<div>No. 4</div> <div>EVQPUM EVQPUD</div> <div>(Embossed Taping)</div> <div>With J-bent terminals With boss</div> <div></div>		<div></div>		
Part Numbers	Operating Force	Height	Push Plate Color	Operating Life
EVQPUM02K	1.6 N	1.65 mm	Black	100000 cycles
EVQPUD02K	2.2 N	1.65 mm	Black	100000 cycles

### ■ Recommended Reflow Soldering Conditions



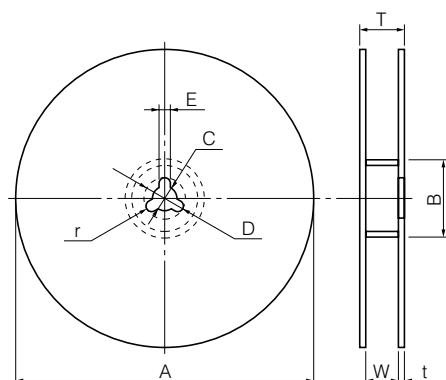
### ● Embossed Carrier Taping



Unit: mm

Part No.	Height	A	B	W	F	E	$P_1$	$P_2$	$P_0$	$D_0$ Dia.	$t_1$	$t_2$
EVQPU	1.65	$7.0 \pm 0.2$	$5.75 \pm 0.20$	$12.0 \pm 0.3$	$5.78 \pm 0.10$	$1.75 \pm 0.10$	$8.0 \pm 0.1$	$2.0 \pm 0.1$	$4.0 \pm 0.1$	$1.5^{+0.1}_{-0}$	$0.35 \pm 0.05$	$2.4 \pm 0.2$

### ● Standard Reel Dimensions in mm (not to scale)



Item	A	B	C	D	E
Rate (mm)	$\phi 370.0 \pm 2.0$	$\phi 50.0$ min.	$\phi 13.0 \pm 0.5$	$\phi 21.0 \pm 1.0$	$2.0 \pm 0.5$

Item	W	T	t	r
Rate (mm)	$14.0 \pm 1.5$	—	1.0 to 3.0	$1.0 \pm 0.5$